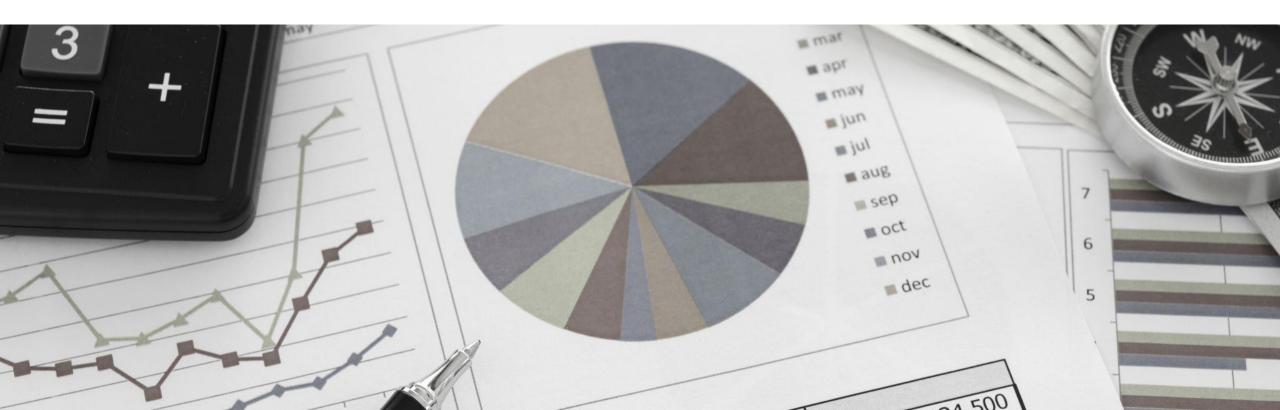


Nigeria Forex Exchange Analysis

- Comprehensive Analysis and Key Insights
- July 05, 2024
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- Konabits Ltd

Introduction

- Objectives
- Analyse recent trends in NGN exchange rates against USD, EUR, GBP.
- Evaluate the performance and unpredictability of these currency pairs.
- Understand the impact of key indicators on exchange rate.
- Provide actionable insights for risk management and strategies planning.
- Scope
- Analysis covers the past six months



Data Collection and Methodology

Data Sources

Forex Data: Alpha Vantage API

Economic Indicators: Mock data



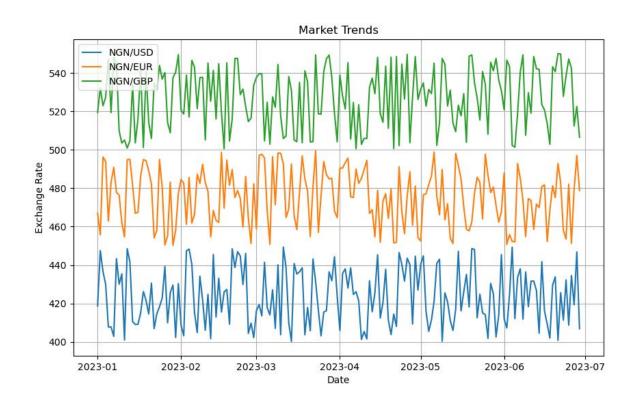
Methodology

- Data Extraction: Data was fetched using the Alpha Vantage API.
- Data Transformation: Data was processed and cleaned using Pandas.
- Data Visualization: Insights were visualized using Matplotlib.



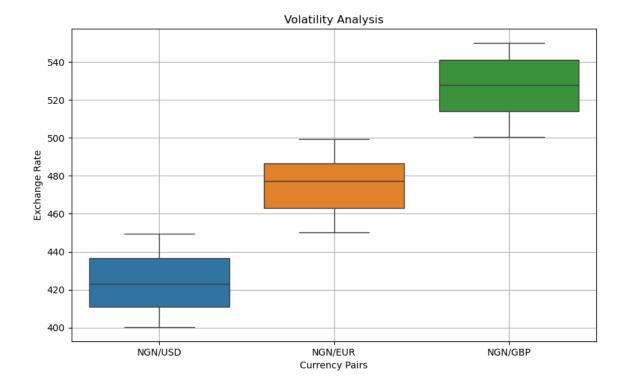
Market Trends

The line chart shows the exchange rate trends for NGN/USD, NGN/EUR, and NGN/GBP over the past six months. The x-axis represents the dates, while the yaxis shows the exchange rates.



- **NGN/USD**: Displays the trend of Nigerian Naira against the US Dollar, indicating whether the Naira is appreciating or depreciating over time.
- NGN/EUR: Shows the trend against the Euro, helping to understand its stability or volatility.
- **NGN/GBP**: Illustrates the trend against the British Pound, providing insights into the performance against another major currency.



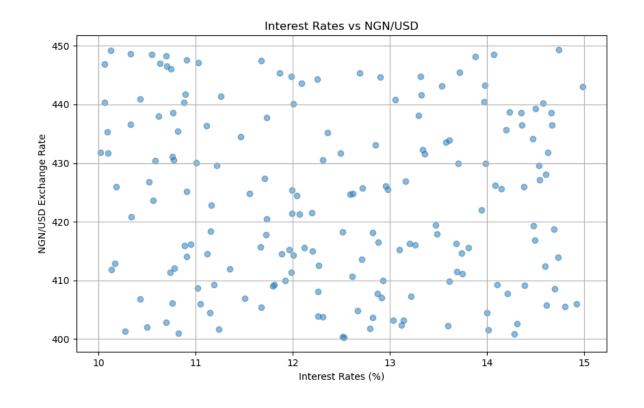


Volatility Analysis

Description: The box plot visualizes the volatility of NGN exchange rates against USD, EUR, and GBP. The box plot shows the spread and variability of the exchange rates.

- **NGN/USD**: Exhibits the highest volatility, indicating potential risks.
- **NGN/EUR**: Shows low volatility, suggesting stability.
- **NGN/GBP**: Moderate volatility, highlighting medium risk.

Economic Indicators Impact **Description**: The scatter plot demonstrates the relationship between interest rates and the NGN/USD exchange rate.



 Correlation: There is a visible correlation between interest rate changes and the exchange rate, which can help in predicting currency movements based on economic policies.



Thank you!

Question time

